

The invention claimed is:

1. A monoclonal antibody having a specificity for anhydroecgonine methyl ester.
2. A monoclonal antibody having a specificity for both anhydroecgonine methyl ester and ecgonidine.
3. A hybridoma cell line which produces a monoclonal antibody with a specificity for anhydroecgonine methyl ester.
4. A hybridoma cell line which produces a monoclonal antibody having a specificity for anhydroecgonine methyl ester and ecgonidine.
5. A hybridoma cell line PTA-5096 which produces a monoclonal antibody having a specificity for anhydroecgonine methyl ester and ecgonidine.
6. A method for creating a hybridoma cell line capable of producing a monoclonal antibody with specificity towards a crack cocaine metabolite comprising the steps of:
  - a. producing an immunogen comprising a crack cocaine metabolite conjugated to an antigenic carrier; and
  - b. immunizing an animal with said immunogen; and
  - c. fusing a cell from said immunized animal with a continuously dividing cell to create a fused cell capable of producing a monoclonal antibody with a specificity for a crack cocaine metabolite; and
  - d. cloning said fused cell.
7. The process of claim 6, wherein said animal is a mouse selected from the group consisting of A/J, BALB/c, CAF(1), Swiss, and Nude and Fox Chase SCID.
8. The process of claim 7 wherein said antigenic carrier is a protein selected from the group consisting of: bovine serum globulin (BSG), keyhole limpet hemocyanin (KLH), ovalbumin (OVA), and bovine serum albumin (BSA).
9. The process of claim 6 wherein a linker molecule is inserted between said metabolite and said antigenic carrier.

10. The process of claim 9 wherein said linker molecule is selected from the group consisting of: 1,6, Diaminohexane (HDA); 1,4 Diaminocyclohexane (CDA); Ethylenediamine (EDA); Carboxybenzaldehyde (CBA); and Glutaraldehyde.
11. An immunogen comprising a crack cocaine metabolite conjugated to an antigenic carrier.
12. The immunogen of Claim 11, wherein said antigenic carrier is a protein.
13. The immunogen of claim 12, wherein said protein is selected from the group consisting of bovine serum globulin (BSG), keyhole limpet hemocyanin (KLH), ovalbumin (OVA), and bovine serum albumin (BSA).
14. An immunogen comprising a crack cocaine metabolite conjugated to a linker molecule and an antigenic carrier.
15. The immunogen of claim 14, wherein said antigenic carrier is a protein selected from the group consisting of bovine serum globulin (BSG), keyhole limpet hemocyanin (KLH), ovalbumin (OVA), and bovine serum albumin (BSA).
16. The immunogen of claim 15, wherein said linker molecule is selected from the group consisting of 1,6, Diaminohexane (HDA), 1,4 Diaminocyclohexane (CDA), Ethylenediamine (EDA), Carboxybenzaldehyde (CBA), and Glutaraldehyde.